AP/2183

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

REVISED INFORMATION DISCLOSURE STATEMENT

Docket Number	
2885/29	

Application Number	Filing Date	Examiner	Art Unit
09/494,567	January 31, 2000	Tonia L. Meonske	2183

Invention Title	Inventor(s)
RUN-TIME RECONFIGURABLE METHOD FOR PROGRAMMABLE UNITS	Martin VORBACH

Address to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

Date: 7 May 2004

Signature: _____
Michelle M. Carniaux (Reg. No. 36,098)

SIR:

1. In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and in conformance with the procedures of 37 C.F.R. §§ 1.97 and 1.98 and M.P.E.P. § 609, attorneys for Applicants hereby bring the following references to the attention of the Examiner. The references are listed on the attached modified PTO Form No. 1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

2. The filing of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b).

3. This Information Disclosure Statement is being filed to correct the defects in the Information Disclosure Statement filed on January 10, 2001, which was filed either (a) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), (b) within three months of the date of entry of the national stage as set forth in 37 C.F.R. 1.491 in an international application, (c) before the mailing date of a first Office Action on the merits in the present application, or (d) before the mailing of a first Office Action after filing of a request for continued examination. Accordingly, no certification or fee is required.

4. The references in the attached PTO Form 1449 that are indicated with an asterisk (*) were submitted in the parent application, Patent Application Serial No. 08/946,998, filed on October 8, 1997,

and are not included with this statement except with respect to the enclosed Foreign Patent Documents and Other Documents, and as indicated in Paragraphs 5, 6, and 7 below.

5. In the Office Action of July 24, 2003, the Examiner indicated that the previously filed Information Disclosure Statement was defective (37 CFR 1.98(a)(3)) in that Applicant did not include a concise explanation of the relevance of each patent listed that is not in the English language. Accordingly, Applicant encloses English abstracts of the following German language patents: DE 196 51 075 A1; DE 196 54 595 A1; DE 196 54 846 A1; DE 44 16 881 C2; and DE 197 04 728 A1.

6. In the Office Action of July 24, 2003, the Examiner indicated that Applicant failed to comply with 37 CFR 1.98(a)(2) requiring a legible copy of each U.S. and foreign patent, each publication or that portion which caused it to be listed. Applicant submits the following complete copies of the following U.S. and foreign patents, indicated on the enclosed PTO Form 1449: U.S.P. 5,128,559; U.S.P. 5,142,469; U.S.P. 5,943,242; and EP 0 726 532 A2.

7. In the Office Action of July 24, 2003, the Examiner indicated that several U.S. and/or foreign patents had not been properly identified. Accordingly, Applicant has reviewed and revised where necessary, the identification of the patents listed at Paragraph 5 of the Detailed Action, Items a. - ff.

8. In addition, Applicant noticed while reviewing the previously filed Information Disclosure Statement, that one non-patent reference that was disclosed in the parent application indicated above was inadvertently omitted. Accordingly, Applicant has included the following reference under "Other References:" Tau, E. et al., "A First Generation DPGA Implementation," FPP '95, pp. 138-143.

9. Accordingly, Applicant respectfully requests that the references in this Information Disclosure Statement, previously filed on January 10, 2001, be officially considered and made of record in the above-identified patent application.

10. It is believed that no fees are due in connection with this Information Disclosure Statement. However, should any fees be due, the Commissioner is authorized to charge Deposit Account No. 11-0600 for such fees. A copy of this communication is enclosed for charging purposes.

Dated: 7 May 04

By: _____
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. **2885/29**	SERIAL NO. **09/494,567**
	APPLICANT **Vorbach et al.**	
	FILING DATE **January 31, 2000**	GROUP **2787**

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE*
	Re. 34,363*	August 31, 1993	Freeman			
	4,489,857	February 6, 1996	Agrawal et al.			
	4,591,979	May 27, 1986	Iwashita			
	4,706,216*	November 10, 1987	Carter			
	4,739,474*	April 19, 1988	Holsztynski			
	4,761,755*	August 2, 1988	Ardini Jr. et al.			
	4,811,214*	Mar. 7, 1989	Nosenchuck et al.			
	4,852,048	July 25, 1989	Morton			
	4,870,302*	September 26, 1989	Freeman			
	4,901,268*	Feb. 13, 1990	Judd			
	4,967,340*	October 30, 1990	Dawes			
	5,014,193*	May 7, 1991	Garner et al.			
	5,015,884*	May 14, 1991	Agrawal et al.			
	5,021,947*	June 4, 1991	Campbell et al.			
	5,023,775*	Jun. 11, 1991	Poret			
	5,043,978	June 11, 1991	Nagler et al.			
	5,081,375*	Jan. 14, 1992	Pickett et al.			
	5,109,503*	April 28, 1992	Cruickshank et al.			
	5,113,498	May 12, 1992	Evan et al.			
	5,115,510	May 19, 1992	Okamoto et al.			
	5,123,109*	June 16, 1992	Hillis			
	5,125,801*	Jun. 30, 1992	Nabity et al.			
	5,128,559* ✓	Jul. 7, 1992	Steele			
	5,142,469* ✓	Aug. 25, 1992	Weisenborn			
	5,204,935*	Apr. 20, 1993	Mihara et al.			
	5,208,491*	May 4, 1993	Ebeling et al.			
	5,226,122*	Jul. 6, 1993	Thayer et al.			

	5,233,539*	Aug. 3, 1993	Agrawal et al.			
	5,247,689*	Sept. 21, 1993	Ewert			
	5,287,472*	Feb. 15, 1994	Horst			
	5,301,344*	Apr. 5, 1994	Kolchinsky			
	5,303,172*	Apr. 12, 1994	Magar et al.			
	5,336,950*	August 9, 1994	Popli et al.			
	5,361,373*	Nov. 1, 1994	Gilson			
	5,418,952*	May 23, 1995	Morley et al.			
	5,421,019*	May 30, 1995	Holsztynski et al.			
	5,422,823*	Jun. 6, 1995	Agrawal et al.			
	5,426,378*	June 20, 1995	Ong			
	5,430,687*	July 4, 1995	Hung et al.			
	5,440,245*	Aug. 8, 1995	Galbraith et al.			
	5,440,538	August 8, 1995	Olsen			
	5,442,790*	August 15, 1995	Nosenchuck			
	5,444,394*	August 22, 1995	Watson et al.			
	5,448,186*	September 5, 1995	Kawata			
	5,455,525*	October 3, 1995	Ho et al.			
	5,457,644*	October 10, 1995	McCollum			
	5,473,266*	December 5, 1995	Ahanin et al.			
	5,473,267*	Dec. 5, 1995	Stansfield			
	5,475,583*	Dec. 12, 1995	Bock et al.			
	5,475,803*	Dec. 12, 1995	Stearns et al.			
	5,483,620*	Jan. 9, 1996	Pechanek et al.			
	5,485,103*	January 16, 1996	Pedersen et al.			
	5,485,104*	January 16, 1996	Agrawal et al.			
	5,489,857*	February 6, 1996	Agrawal et al.			
	5,491,353*	February 13, 1996	Kean			
	5,493,239*	Feb. 20, 1996	Zlotnick			
	5,497,498*	Mar. 5, 1996	Taylor			
	5,506,998*	Apr. 9, 1996	Kato et al.			
	5,510,730*	April 23, 1996	El Gamal et al.			
	5,511,173*	Apr. 23, 1996	Yamaura et al.			
	5,513,366*	April 30, 1996	Agarwal et al.			
	5,521,837*	May 28, 1996	Frankle et al.			
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	5,532,693*	Jul. 2, 1996	Winters et al.			
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	5,535,406*	July 9, 1996	Kolchinsky			
	5,537,057*	July 16, 1996	Leong et al.			
	5,537,601*	Jul. 16, 1996	Kimura et al.			
	5,541,530*	Jul. 30,1996	Cliff et al.			
	5,544,336*	Aug. 6, 1996	Kato et al.			
	5,548,773*	August 20, 1996	Kemney et al.			
	5,555,434*	Sep. 10, 1996	Carlstedt			
	5,559,450*	Sep. 24, 1996	Ngai et al.			
	5,561,738*	Oct. 1, 1996	Kinerk et al.			
	5,570,040*	October 29, 1996	Lytle et al.			
	5,583,450*	December 10, 1996	Trimberger et al.			
	5,586,044*	December 17, 1996	Agrawal et al.			
	5,587,921*	December 24, 1996	Agrawal et al.			
	5,588,152*	December 24, 1996	Dapp et al.			
	5,590,345*	December 31, 1996	Barker et al.			
	5,590,348	December 31, 1996	Phillips et al.			
	5,596,742	January 1, 1997	Agarwal et al.			
	5,617,547	April 1, 1997	Feeney et al.			
	5,634,131	May 27, 1997	Matter et al.			
	5,652,894	July 29, 1997	Hu et al.			
	5,655,124	August 15, 1997	Lin			
	5,659,797	Aug. 19, 1997	Zandveld et al.			
	5,713,037	January 27, 1998	Wilkinson et al.			
	5,734,921	March 31, 1998	Dapp et al.			
	5,742,180	April 21, 1998	Detton et al.			
	5,748,872	May 5, 1998	Norman			
	5,754,871	May 19, 1998	Wilkinson et al.			
	5,761,484	June 2, 1998	Agarwal et al.			
	5,778,439	July 7, 1998	Trimberger et al.			
	5,801,715	September 1, 1998	Norman			
	5,828,858	October 27, 1998	Athanas et al.			
	5,838,165	November 17, 1998	Chatter			
	5,844,888	Dec. 1, 1998	Markkula, Jr. et al.			
	5,867,691	February 2, 1999	Shiraishi			
	5,892,961	April 6, 1999	Trimberger			

	5,915,123	June 22, 1999	Mirsky et al.			
	5,927,423	July 27, 1999	Wada et al.			
	5,936,424	August 10, 1999	Young et al.			
	5,943,242	Aug. 24, 1999	Vorbach et al.			
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	6,054,873	April 25, 2000	Laramie			
	6,108,760	September 19, 2000	Mirsky et al.			
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	6,127,908	October 3, 2000	Bozler et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	0 221 360*	May 13, 1987	Europe				
	0 428 327 A1*	May 22, 1991	Europe				
	0 539 595 A1*	May 5, 1993	Europe				
	EP 0 678 985 A2*	October 25, 1995	Europe				
	0 707 269	April 17, 1996	Europe				
	EP 0 735 685 A2*	Oct. 2, 1996	Europe				
	EP 0 726 532 A2*	August 14, 1996	Europe				
	EP 0 748 051 A2*	December 11, 1991	Europe				
	DE 044-16 881 C2*	November 17, 1994	Germany			Abstract	
	DE 196 51 075 A1	October 6, 1998	Germany			Abstract	
	DE 196 54 595 A1	July 2, 1998	Germany			Abstract	
	DE 196 54 846 A1	July 9, 1998	Germany			Abstract	
	DE 197 04 728	August 13, 1998	Germany			Abstract	
	WO 90/04835	May 3, 1990	WIPO				
	WO 90/11648*	October 4, 1990	WIPO				
	WO 93/11503	June 10, 1993	WIPO				
	WO 94/08399*	April 14, 1994	WIPO				
	WO 95/00161	January 5, 1995	WIPO				
	WO 95/26001	September 28, 1995	WIPO				

OTHER DOCUMENTS

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	*Villasenor, John, et al., "Configurable Computing." *Scientific American*, Vol. 276, No. 6, June 1997, pp. 66-71.
	*Villasenor, John, et al., "Configurable Computing Solutions for Automatic Target Recognition," *IEEE*, 1996 pp. 70-79.
	*Athanas, Peter, et al., "IEEE Symposium on FPGAs For Custom Computing Machines," *IEEE Computer Society Press,* April 19-21, 1995, pp. i-vii, 1-222
	*Bittner, Ray, A., Jr., "Wormhole Run-Time Reconfiguration: Conceptualization and VLSI Design of a High Performance Computing system," Dissertation, January 23, 1997, pp. i-xx, 1-415
	*Myers, G., Advances in Computer Architecture, Wiley-Interscience Publication, 2nd ed., John Wiley & Sons, Inc. Pgs. 463-94, 1978.
	*Saleeba, Michael, "A Self-Contained Dynamically Reconfigurable Processor Architecture," *Sixteenth Australian Computer Science Conference, Department of Computer Science, Monash University,* ASCS-16, QLD, Australia, February, 1993.
	*Maxfield, C. "Logic that Mutates While-U-Wait" *EDN, The Design Magazine of the Engineering Industry* (Bur. Ed) (USA), EDN (European Edition), 7 November 1996, Cahners Publishing, USA
	*M. Morris Mano, "Digital Design," by Prentice Hall, Inc., Englewood Cliffs, New Jersey, 1984, pp. 119-125, 154-161.
	Norman, Richard S., "Hyperchip Business Summary - The Opportunity," *Business Summary,* http://www.hyperchip.com/business_summary.htm January 31, 2000, pages 1-3.
	*Tau, E. et al., "A First Generation DPGA Implementation," FPP '95, pp. 138-143.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	